**SIZE AND WEIGHT**

- **EXTERNAL DIMENSIONS (L X W X H)**: 740 x 550 x 309 mm (29.1 x 21.7 x 12.2 in)
- **WEIGHT**: 107 kg (236 lb)

**SPEED AND PERFORMANCE**

- **PAYLOAD**: 150 kg (331 lb)
- **MAX SPEED / ACCELERATION**: 2.0 m/s (4.5 mph) / 1.0 m/s²
- **SUSPENSION**: Fixed
- **INTEGRATED LIFT**: Up to 83 mm (2.44 in) stroke, up to 150 kg capacity
- **TURNING RADIUS / DRIVE CONFIGURATION**: 0 mm / Rear-wheel differential drive
- **MAX GRADE**: Up to 1° for typical applications
- **DOCKING REPEATABILITY - FREE SPACE**: Down to ±10 mm positional, ±1° angular; dependent on environment
- **DOCKING REPEATABILITY - AUTOCHARGE DOCK**: Down to ±4 mm lateral, ±10 mm longitudinal, ±0.5° angular; dependent on environment
- **TEMPERATURE RANGE OPERATION / STORAGE**: 20 °C to 40 °C (68 °F to 104 °F) / -20 °C to 30 °C (-4 °F to 86 °F)

**BATTERY AND POWER SYSTEM**

- **BATTERY CHEMISTRY / CAPACITY / VOLTAGE**: Lithium iron nanophosphate / 924 W·h / 19 - 32 V
- **USER-FACING POWER INTERFACE**: Unregulated, unswitched battery voltage, 12 A maximum
- **RUNTIME - NAVIGATING / STATIONARY**: Approx. 6 hr / Up to 16 hr
- **CHARGE TIME - AUTODOCK / MANUAL**: 20 min / 4.5 hr

**INTERFACING AND COMMUNICATION**

- **INTERNAL COMPUTER INTERFACE**: ROS2 API
- **ROS COMPUTER (Optional)**: Vecow ECX-2000 series or EVS-2000 series
- **VISUAL COMMUNICATION**: 360° LED light pipe for status indication
- **PAYLOAD INTERFACE**: 1X Ethernet, RJ-45 female, PoE, 1X USB 3.0a Type A female, 8X Digital inputs, 8X Digital outputs E-stop loop breakout, dual-channel, Serial interface, RS-232, 2-wire, 2X safety relay dry contacts Emergency stop reset interlock
- **WIFI**: 802.11 ac/a/b/g/n, 2.4 Ghz, 5 Ghz
- **SAFETY & NAVIGATION SENSOR**: Hokuyo UAM-05LP 2D LiDAR, 270° FoV, 5 m safety-rated protective field range, 20 m non-safety-rated warning field range
- **REVERSING SENSOR / 3D OBSTACLE SENSOR**: Pepperl+Fuchs R2100 2D LiDAR, 88° FoV / Intel RealSense D435
- **DRIVERS / APIs**: ROS1 Noetic or ROS2 Foxy, Gazebo, LED Light Control, RViz & URDF Support

**CONTACT US FOR MORE INFORMATION**

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